



Espacenet

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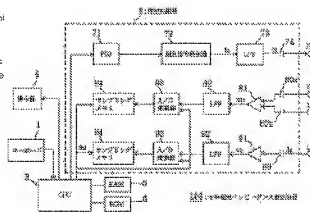
## BIOELECTRIC IMPEDANCE MEASURING DEVICE

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## Abstract of JP 10014898 (A)

**PROBLEM TO BE SOLVED:** To measure bioelectric impedance accurately and safely while the configuration remains simple. **SOLUTION:** An impedance measuring device 100 is composed of a measurement processing part 2, a CPU 3, and a display part 4, wherein the measurement processing part 2 comprises a measuring signal generator 72 to allow a probe current *i* consisting of *N*-series sinusoidal signals to flow through the body of a subject, an IV converter 91 and LPF 92 and also A/D converter 93 for sensing the probe current *i* flowing through the body of the subject, a differential amplifier 61 and LPF 92 and another A/D convert 63 for sensing the voltage *V<sub>p</sub>* between his hands and feet, and sampling memories 84 and 94 which store the voltages digitized by the A/D converters 83 and 93.; The CPU 3 converts the digital voltages stored in the sampling memories 84 and 94 into a voltage value for each frequency through Fourier's transform processing and calculates bioelectric impedance on the basis of the result from conversion. The display part 4 displays the obtained bioelectric impedance on the line.



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